



SIEMENS

# SISTORE MX 3G hybrid recorder, a new dimension in storage.

Analogue and IP storage - the modern art of video surveillance.

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Answers for infrastructure.



# Rapid hybrid surveillance

The latest generation of SISTORE MX 3G is a hybrid video surveillance system capable of recording both IP and analogue cameras simultaneously. Benefiting from an i7 processor, this Windows 7 embedded digital video recorder completes tasks quickly and efficiently with its multi core operating system, making it suitable for a larger number of applications requiring real time recording. The flexible connection abilities of the SISTORE MX 3G ensure easy integration into other security or building management systems.

# Safe and secure into the future with hybrid technology

## ■ IP only or Hybrid recording system with up to 64 camera inputs

SISTORE MX 3G is available as IP only, or as a hybrid system, allowing a smooth upgrade of existing analogue systems. With 7 available models, up to 32 standard analogue cameras and 32 IP cameras can be connected, with various hard disk sizes options to suite most application requirements.

## ■ Integration in other systems

Via the integrated software interface, SISTORE MX 3G can be controlled by SiPass Entro and SiPass integrated access control systems, proving an interoperable security platform.

## ■ PTZ control for both speed dome cameras and pan/tilt devices

Both speed dome and pan/tilt/zoom cameras can be controlled via the on-screen interface of SISTORE MX 3G. Preset positions can be set and recalled easily, together with setting patrols, where the camera moves from one preset position to another automatically and "patrols" the facility.

## ■ Support of IP cameras from Siemens including PTZ control

SISTORE MX 3G can be used with Siemens full range of IP cameras and in the case of PTZ cameras supports PTZ control over the network. Additionally, 3rd party manufacturers cameras are supported as well, providing added flexibility for end user requirements.

## ■ Full "pentaplex" operation

SISTORE MX 3G is a pentaplex system – one which enables the user to simultaneously continue to record, watch a live multi-screen picture display whilst playing back previously recorded video scenes on the same monitor and remote live viewing and playback via remote network connection.

## ■ Integrated tamper protection and temperature management

SISTORE MX 3G recording systems are equipped with integrated sabotage protection, recognising camera re-positioning, covering, spraying and defocusing. The integrated temperature management reduces maintenance time and cost, ensuring true system protection.

## ■ Site plan feature for easy orientation in the monitored area

Cameras positioned in a site plan can be displayed easily via mouse click. This feature helps operating personnel to track suspicious people for example, without having to remember the next camera number.

## ■ UVV Kassen and Kalagate certification

SISTORE MX 3G is certified as complying with the German Accident Prevention Regulations for Banks, UVV Kassen (the highest certification standard in Germany), which is required by every bank. Additionally SISTORE MX 3G is certified by the Kalagate Imagery Bureau. Based in England, Kalagate independently certifies digital equipment verifying that the captured and stored images are admissible as evidence in criminal and civil judicial courts of law.

## Highlights

- Intel i7 CPU for up to 4 x faster processing power
- Centralised user management
- IP only, or Hybrid technology for easy migration from analogue to digital systems
- Recording up to 1200 images per second
- Support of Siemens IP camera portfolio
- Easy integration into other systems
- The German UVV Kassen and the UK Kalagate security certification

Public transport



Banks



Retail stores





# Comprehensive features that are simple to operate

## ■ Flexible remote monitoring

In networked applications during an alarm condition, SISTORE MX 3G can provide a direct link to the remote viewing software, to allow immediate access to the images over the network, or send SMS and if required an e-mail. This included RemoteView software can also perform a "site-tour" – automatically connecting and disconnecting to pre-defined remote sites allowing the operator to simply sit back and watch the tour on the monitor.

## ■ Basic matrix switching

It is possible to have a total of 4 analogue monitor outputs – these can be used to switch any of the 32 analogue cameras, creating a basic 32 x 4 switcher. Monitors can be programmed to act as alarm monitors and SISTORE MX 3G will automatically switch cameras upon alarm activation.

## ■ Reference image

Benefiting both installers and end users is the facility to store a "reference image" of the installed camera – so should it be moved, maliciously or otherwise, or simply if it has to be serviced, there is an exact record of its viewing position.

## ■ Various different display options

With the connection of up to 64 cameras possible, multiple screen display options are provided to the user to ensure the optimum viewing conditions, including widescreen monitors.

## ■ Motion detection

To optimise hard disk storage, the pixel based motion detection system allows the user to define areas of interest in a scene and only when motion occurs inside this area, will the images be recorded.

## ■ Covert camera mode

Any camera can be configured as a covert camera – it is then recorded but may only be viewed by users with sufficient security authorisation, such as the store manager. This feature is ideal for cameras monitoring cash registers in retail applications.

## ■ Quick and easy searching

To ensure the fastest method of finding images, a mask can be defined in the area of interest, filtering the playback to only that area and ensuring no time is wasted watching hours of useless video. Also, there is the timeline search, showing all recorded images across the cameras, including showing movement detection, alarm triggers etc. – just drag the line to the time or date required – simple. Of course it is also possible to search according to standard criteria such as date, time, camera and logbook.

## ■ Support of megapixel recording

SISTORE MX supports the recording of megapixel IP cameras. Megapixel recordings contain more information, particularly useful when using the integrated digital zoom feature.

## Highlights

- Various display options for optimum viewing conditions
- Flexible implementation of video analytics
- More information with 2 megapixel recording

Various different display options



# Additional features provided by SISTORE MX 3G

## ■ Site plan feature

It can be difficult to remember all camera numbers and positions when managing a security system. SISTORE MX 3G addresses this need with its enhanced site plan functionality, which provides a full visual overview of a facility. Site plans or photos of facilities can be loaded easily by adding the appropriate symbol for the camera position to the site plan. In addition, it is possible to add maps for individual rooms or floors, together with links that permit fast and easy switching between these. This feature allows security personnel to quickly and easily track suspicious people on the premises.

## ■ ATM surveillance with text integration

The serial interface with which SISTORE MX 3G is equipped can be used to connect a variety of ATMs, therefore making the system specifically suitable for use in banks and financial institutions.

Recording can be triggered by e.g. access to the ATM area at night. Transaction data from the ATM can be stored with the video sequence for verification of the scene and happenings at a later date.

## ■ Cash register connection

Based on a special word filters placed on the data sent from the cash register as well as defined alarm filters, corresponding camera will be triggered to start recording. The same filter words can then be used as search criteria for subsequent research making the system suitable for use in shopping centres and retail applications.

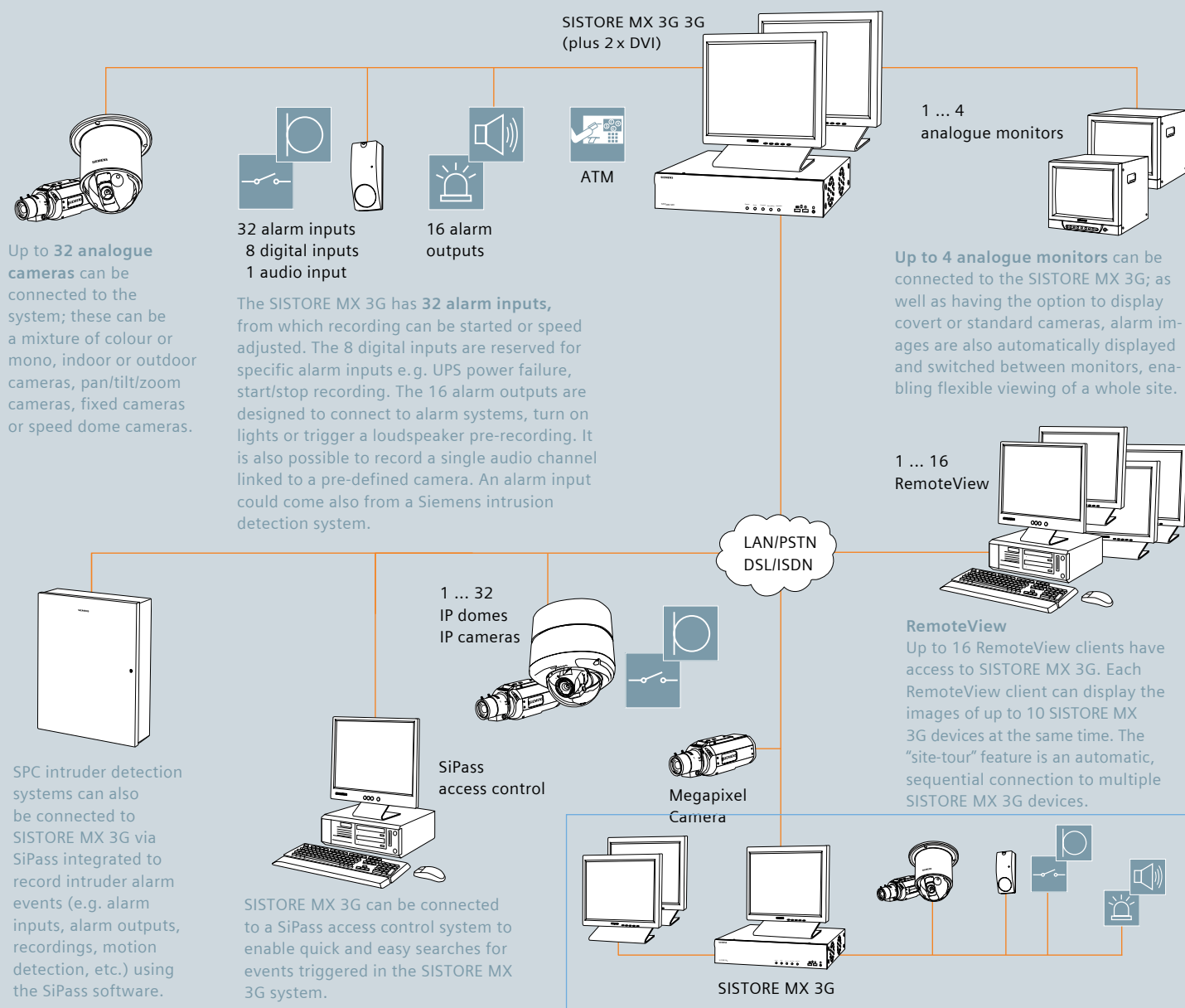
## ■ Automatic backup

SISTORE MX 3G can automatically backup full or partial video and audio recordings on an external drive. The time and days of the week can be configured for backup. The user can choose whether to carry out



full or incremental backup. As opposed to full backup, incremental backup is used to store all files that have been created since the last backup therefore requiring considerably less time and storage capacity on the target drive.

## ■ Multiple server operation

The new multiple server operation feature enables simultaneous access to several SISTORE MX 3G devices from a remote operating station and therefore allows for monitoring several locations at the same time using RemoteView. Images from a specific camera are displayed by simply selecting the camera from the list. Up to 768 (8 x 96) cameras can be listed and live images from up to 36 (6 x 6) cameras can be displayed at once.



# Technical overview

	SISTORE MX1608 3G HVR, 2TB, 520ips SISTORE MX1616 3G HVR, 4TB, 1200ips	SISTORE MX3232 3G HVR, 4TB, 1200ips SISTORE MX3200 3G IPVR, 4TB, 800ips
		
Display		
Video inputs (analogue)	8 or 16	32 for HVR, zero for IPVR
Video inputs (digital IP/Ethernet)	8 or 16	32
Monitor outputs	6 (4 x BNC; 2 x DVI)	6 (4 x BNC; 2 x DVI)
Audio inputs / outputs	MX1608 → 8 inputs / 2 mono outputs MX1616 → 16 inputs / 4 mono outputs	MX3232 → 16 inputs / 4 mono outputs MX3200 → 0 inputs / 2 stereo outputs
Video resolution (H x V)	CIF/2CIF/4CIF (analogue) max. 5megapixels depending on the camera (IP-cameras)	CIF/2CIF/4CIF (analogue) max. 5megapixels depending on the camera (IP-cameras)
Covert camera mode	1, 2 x 2 (quad), 1+5, 3 x 3, 2+8, 4+9, 4 x 4, 6 x 6-4, 7 x 7 -1, 8 x 8	1, 2 x 2 (quad), 1+5, 3 x 3, 2+8, 4+9, 4 x 4, 6 x 6-4, 7 x 7 -1, 8 x 8
Recording and transmission		
Recording speed (based on VGA resolution)	MX1608 → 200 ips (analogue) / 320 ips (digital) MX1616 → 400 ips (analogue) / 800 ips (digital)	MX3232 → 400 ips (analogue) / 800 ips (digital) MX3200 → 0 ips (analogue) / 800 ips (digital)
Recording standard	MJPEG	MJPEG
Transmission	MJPEG/MPEG4	MJPEG/MPEG4
Alarms		
Alarm inputs	16	16
Digital inputs	4	4
Alarm outputs	4	4
Video loss detection	■	■
Activity detection	■	■
Internal buzzer	■	■
Alarm log	■	■
Sabotage detection	■	■
Controls		
SmartSearch	■	■
PTZ/dome control	■	■
Fast forward/rewind controls	■	■
Pentaplex operation	■	■
Connectivity		
Ethernet LAN/WAN connector	■	■
External modem connector (ISDN)	Via USB	Via USB
RemoteView Software	■	■
Integrated to	SiPass	SiPass
Export/backup		
Image export	USB, FTP	USB, FTP
Image backup/archive	USB to HDD/CD/DVD	USB to HDD/CD/DVD
Max. hard disk capacity (int.)	4 TB	4 TB



SISTROR MX 3G – A new generation of hybrid video surveillance

#### ■ External storage expansion possibilities (e.g. RAID 1 or RAID 5/6)

Should large video storage be required for longer recordings, the hard disk storage can be easily extended using network attached storage or an external network based RAID system.

#### ■ Interoperable with security systems from Siemens

Utilising SiPass access control software from Siemens, operators have a clear overview of their buildings, including open doors or windows. If either the access control or intrusion detection system trigger an alarm, SISTROR MX 3G automatically starts recording the relevant camera located in the alarm zone area. The video images can be replayed as alarm verification directly in the SiPass software. Activating and deactivating of intrusion alarm zones is then also possible via SiPass software, as well as automatically restricting access control rights during an alarm situation.

#### ■ Centralized user management

The latest generation of SISTROR MX 3G has the ability to administrate and control any hybrid recorder on its local network easily from one location, enabling a centralized and easy to manage daily mode of operation, making usage of the complete system much easier and more effective.

#### ■ SNMP Support

The SISTROR MX 3G has Simple Network Management Protocol (SNMP) support, that enhances configuring and information transfer of connected IP cameras, resulting in easier network management and status directly from the SISTROR MX 3G.

#### ■ Multi-core operation

The latest SISTROR MX 3G is equipped with a multi-core (4 hardware and 4 hyper threaded cores) intel i7 processor, enabling it to run multiple tasks at the same time, increasing the overall performance, whilst enhancing its efficiency.

#### ■ Windows 7 Embedded

Utilising the latest Windows 7 embedded features ensures that SISTROR MX 3G has the latest operation system and IT security features.

### Highlights

- Site plan feature for easy orientation in large monitored areas
- Connection of ATMs, barcode scanners, cash register for easy search of video images belonging to certain transactions
- Automatic backup for highest safety of data
- Connection of network storage system / RAID system for extension of storage
- Interoperable with security systems from Siemens
- SNMP support
- Multi-core operation
- Windows 7 Embedded



Searching for video images belonging to certain transaction data.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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#### Answers for infrastructure.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming, and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly

growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

**"We are the preferred partner for energy-efficient, safe, and secure buildings and infrastructure."**